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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,498	10/17/2003	Michael Edwin Schneider	1938-7-3	1969

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EXAMINER

STERRETT, JEFFREY L

ART UNIT	PAPER NUMBER
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2838

DATE MAILED: 12/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/688,498

Applicant(s)

SCHNEIDER, MICHAEL EDWIN

Examiner

Jeffrey L. Sterrett

Art Unit

2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 November 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 5, 16, 19, 20 and 22 is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-15, 17, 18, 21 and 23 is/are rejected.
- 7) ☒ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1-4, 6, 7, 11-15, 17, 18, 21, and 23 are rejected under 35 U.S.C. 102(a) as being anticipated by Brooks (US 6,605,931).

Brooks discloses a power supply comprising an output node (112) providing a regulated supply voltage (V-OUT), a main phase drive circuit (208, 1004, and 1018) providing load current to the output node and having ON and OFF times, a main filter inductor (206) coupled between the main phase circuit and the output node, a transient phase drive circuit (1008, 1010, 1012, 1014, and 1016) providing transient load current to the output node and having ON and OFF times respectively less than the ON and OFF times of the main phase drive circuit, a transient filter inductor (1006) having a smaller inductance than the main inductor (see lines 20-23 of column 14) coupled between the transient phase circuit and the output node, a filter capacitor (108) coupled to the output node, and a PWM circuit (102/202/1002) to operate the main and transient phase circuits.

3. Claims 8-10 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Brooks.

Brooks teaches a power supply as recited by claims 8-10 except for specifying the inductance values of the main and transient inductors. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the power

supply of Brooks by utilizing the specified inductance values since it has been held that where the general conditions of a claim are disclosed in the prior art discovering the optimum or workable value of a result effective variable involves only routine skill in the art.

4. Claims 5, 16, 19, 20, and 22 are allowed.

5. Applicant's arguments filed November 25, 2005 have been fully considered but they are not persuasive.

In response to the remarks concerning the drive signals based on the same feedback signal, this alleged distinction is without merit. First, Brooks clearly discloses in figure 10 a power supply 1020, like that of applicants as explained above, in which controller 1002 is response to the power supply output voltage V-OUT. Brooks continues to clearly disclose in figure 13 that controller 1002 comprises a feedback circuit 404 responsive to V-OUT, along with PWM circuits 1306, to provide drive signals H1/L1, H2/L2, and Hn/Ln and a transient recovery circuit 1302 also responsive to V-OUT to provide drive signals MAX and MIN. Second, the phrases "based on" and "related to" in the claim limitation "that are based on a feedback signal that is related to the regulated supply voltage" make the limitation more broad and open to interpretation than a claim limitation like –determined by a single feedback signal from the regulated supply voltage-. Thus the disclosure of Brooks fulfills the broad claim limitation of drive

circuits having on and off times "that are based on a feedback signal that is related to the regulated supply voltage".

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

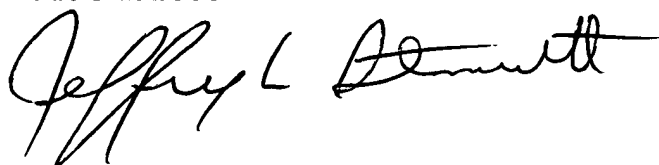
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571) 272-2085. The examiner can normally be reached on Monday-Thursday & 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey L. Sterrett
Primary Examiner
Art Unit 2838

A handwritten signature in black ink, appearing to read "Jeffrey L. Sterrett", written in a cursive style.